

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	"20050161401"	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 10:45
L2	665991	pH	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 10:45
L3	1	1 and 2	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 10:45
L4	32	(US-20050112734-\$ or US-20040006222-\$ or US-20050096464-\$ or US-20020058715-\$ or US-20050061313-\$ or US-20040006223-\$).did. or (US-5863438-\$ or US-5733521-\$ or US-4111714-\$ or US-5126500-\$ or US-6358715-\$ or US-6599722-\$ or US-4477597-\$ or US-4968353-\$ or US-6475552-\$ or US-6146856-\$ or US-4145486-\$ or US-4159284-\$ or US-3961981-\$ or US-4718946-\$ or US-4799965-\$ or US-5482631-\$ or US-3982956-\$ or US-4292451-\$ or US-6224683-\$ or US-5094694-\$ or US-4051221-\$ or US-4049546-\$ or US-5795398-\$ or US-5084104-\$ or US-5772874-\$).did. or (US-2847421-\$).did.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 12:25
L5	27	2 and 4	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 11:02
L6	547539	sulfate	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 11:06
L7	12	4 and 6	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 11:03
L8	2443	sulfate with (weak\$4 adj basic anion adj exchang\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 11:13
L9	53	(sulfate with (weak\$4 adj basic anion adj exchang\$4)) same sugar	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 11:09
L10	1	(sulfate with (weak\$4 adj basic adj anion adj exchang\$4)) same sugar	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 11:09

## EAST Search History

L11	643	127/46.2.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 11:11
L12	130	127/46.3.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 11:11
L13	64	L11 and L12	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 11:11
L14	709	11 or 12	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 11:12
L15	28	8 and 14	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 11:12
L16	43	sulfate with (weak\$4 adj basic adj anion adj exchang\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 12:23
L17	1	14 and 16	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 11:13
L18	17172	arabinose	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 12:23
L19	6	4 and 18	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 12:23
L20	1	"5730877".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 12:26
L21	1	18 and 20	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 12:28
L22	1	"5730877".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 12:29
L23	1	"5795398".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 12:29
L24	0	18 and 23	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 12:30
L25	1	"5637225".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 12:31

## EAST Search History

L26	1	18 and 25	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 12:31
L27	342	heikkila.in.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 12:46
L28	3037	210/656-659.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 12:46
L29	37	L27 and L28	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 12:46
L30	1027	210/635.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 12:47
L31	2868	210/198.2-198.3.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 12:47
L32	4082	28 or 30 or 31	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 12:47
L33	37	27 and 32	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 12:48
L34	14	18 and 33	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 12:48
S2	6	weak\$2 adj basic adj anion adj exchang\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/03 09:44
S3	1130	weak\$2 adj basic adj anion adj exchang\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/02 10:46
S4	25	(weak\$2 adj basic adj anion adj exchang\$4) with sugar	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/02 11:14
S5	314	heikkila.in.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/02 11:14
S6	10	S3 and S5	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/02 14:39
S7	628	127/46.2.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/02 14:39

## EAST Search History

S8	128	127/46.3.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/02 14:39
S9	62	S7 and S8	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/02 14:39
S10	694	S7 or S8	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/02 14:39
S11	1130	weak\$2 adj basic adj anion adj exchang\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/02 14:40
S12	37	S10 and S11	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/02 14:40
S13	359	keto adj l adj gulonic	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/03 09:45
S14	8	(keto adj l adj gulonic) with carbohydrate	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/03 09:50
S15	33	(keto adj l adj gulonic) with sugar	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/03 13:10
S16	1	"6153791".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/03 10:34
S17	203755	sugar	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/03 10:34
S18	0	S16 and S17	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/03 10:35
S19	28517	saccharide	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/03 10:36
S20	0	S16 and S19	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/03 10:35
S21	28884	saccharid\$	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/03 10:36
S22	0	S16 and S21	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/03 10:36

## EAST Search History

S23	1	(keto adj l adj gulonic) with saccharid\$	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/03 11:10
S24	2	(keto adj l adj gulonic) with monosaccharid\$	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/03 11:10
S25	2504	weak\$2 adj bas\$2 near2 exchang\$3	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/03 13:11
S26	132	(weak\$2 adj bas\$2 near2 exchang\$3) with acrylic	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/03 13:32
S27	628	127/46.2.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/03 13:12
S28	128	127/46.3.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/03 13:12
S29	694	S27 or S28	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/03 13:12
S30	5	S26 and S29	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/03 13:12
S31	108	(weak\$2 adj bas\$2 near2 exchang\$3) with (styrene near divinylbenzene)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/03 13:35
S32	0	S29 and S31	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/03 13:33
S33	314	heikkila.in.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/03 13:34
S34	0	S31 and S33	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/03 13:34
S35	113	(weak\$2 adj bas\$2 near2 exchang\$3) with (styrene near2 divinylbenzene)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/03 13:37
S36	2	S29 and S35	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/03 13:35
S37	113	(weak\$2 adj bas\$2 near2 exchang\$3) with (styrene near2 divinylbenzene)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/06 09:04

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S38	0	(weak\$2 adj bas\$2 near2 exchang\$3) with isoprene	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/06 09:04
S39	13	(weak\$2 adj bas\$2 near2 exchang\$3) same isoprene	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/06 09:05
S40	27	(US-20050112734-\$ or US-20040006222-\$ or US-20050096464-\$ or US-20020058715-\$ or US-20050061313-\$).did. or (US-6599722-\$ or US-6358715-\$ or US-5126500-\$ or US-4111714-\$ or US-4968353-\$ or US-6224683-\$ or US-6146856-\$ or US-3961981-\$ or US-3982956-\$ or US-4292451-\$ or US-4718946-\$ or US-4799965-\$ or US-5094694-\$ or US-5482631-\$ or US-5733521-\$ or US-4159284-\$ or US-4145486-\$ or US-4477597-\$ or US-5863438-\$ or US-4051221-\$ or US-4049546-\$).did. or (US-2847421-\$).did.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/12 13:03
S45	27	(US-20050112734-\$ or US-20040006222-\$ or US-20050096464-\$ or US-20020058715-\$ or US-20050061313-\$).did. or (US-6599722-\$ or US-6358715-\$ or US-5126500-\$ or US-4111714-\$ or US-4968353-\$ or US-6224683-\$ or US-6146856-\$ or US-3961981-\$ or US-3982956-\$ or US-4292451-\$ or US-4718946-\$ or US-4799965-\$ or US-5094694-\$ or US-5482631-\$ or US-5733521-\$ or US-4159284-\$ or US-4145486-\$ or US-4477597-\$ or US-5863438-\$ or US-4051221-\$ or US-4049546-\$).did. or (US-2847421-\$).did.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/12 13:06
S46	292085	particle adj size	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/12 13:07
S47	8	S45 and S46	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/12 13:18
S48	263355	acidic	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/12 13:18

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S49	21	S45 and S48	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/12 13:19
S50	624639	pH	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/12 13:19
S51	22	S45 and S50	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/12 13:23
S52	2997	condensate adj water	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/12 13:24
S53	0	S45 and S52	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/12 13:25
S54	7733	pentose	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/12 13:25
S55	4	S45 and S54	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/12 13:28
S56	10218	hexose	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/12 13:28
S57	3	S45 and S56	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/12 13:30
S58	12950	xylitol	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/12 13:30
S59	7733	pentose	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/12 13:31
S60	23921	betaine	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/12 13:31
S61	76	S58 and S59 and S60	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/12 13:38
S62	39204	maltose	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/12 13:32
S63	62	S61 and S62	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/12 13:32

## EAST Search History

S64	22300	inositol	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/12 13:32
S65	37	S63 and S64	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/12 13:32
S66	499	S59 and S60	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/12 13:38
S67	326	heikkila.in.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/12 13:38
S68	12	S66 and S67	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/12 13:40
S69	2885	210/656-659.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/12 13:40
S70	36	S67 and S69	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/12 13:45
S71	7733	pentose	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/12 13:46
S72	9	S70 and S71	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/12 14:05
S73	5852	rhamnose	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/12 14:05
S74	15	S70 and S73	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/12 14:10
S75	39204	maltose	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/12 14:10
S76	20	S70 and S75	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/12 16:12
S77	22300	inositol	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/12 16:12
S78	19	S70 and S77	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/12 16:23



## EAST Search History

S79	188451	glycerol	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/12 16:23
S80	13	S79 and S70	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/12 16:23
S81	1	("6146856").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/13 11:19
S82	1235	simulated adj moving adj bed	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/13 11:19
S83	0	S81 and S82	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/13 11:19
S84	326	heikkila.in.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/13 11:21
S85	2885	210/656-659.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/13 11:21
S86	36	S84 and S85	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/13 11:21
S87	27	S82 and S86	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/13 12:09
S88	1	"7009076"	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/13 12:09
S89	333	heikkila.in.	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/09 15:41
S90	1200	weak\$2 adj basic adj anion adj exchang\$4	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/09 15:50
S91	12	S89 and S90	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/09 15:46
S92	639	127/46.2.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/09 14:27
S93	129	127/46.3.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/09 14:27

## EAST Search History

S94	705	S92 or S93	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/09 14:29
S95	362837	chromatogra\$4	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/09 14:29
S96	224	S94 and S95	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/09 14:29
S97	14	S90 and S96	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/09 14:29
S98	1920	therkorn.xp.	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/09 15:46
S99	14	S89 and S98	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/09 15:46
S10 0	24	(weak\$2 adj basic adj anion adj exchang\$4).clm.	US-PGPUB	OR	ON	2007/02/09 15:51
S10 1	5850	(chromatogra\$4).clm.	US-PGPUB	OR	ON	2007/02/09 15:51
S10 2	6	S100 and S101	US-PGPUB	OR	ON	2007/02/09 15:51
S10 3	1	"5482631".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/12 09:44
S10 4	30	(US-20050096464-\$ or US-20050061313-\$ or US-20040006222-\$ or US-20050112734-\$ or US-20040006223-\$ or US-20020058715-\$).did. or (US-6146856-\$ or US-5126500-\$ or US-6358715-\$ or US-6224683-\$ or US-5482631-\$ or US-4968353-\$ or US-4718946-\$ or US-4111714-\$ or US-6475552-\$ or US-4049546-\$ or US-5795398-\$ or US-4799965-\$ or US-4292451-\$ or US-3961981-\$ or US-5094694-\$ or US-3982956-\$ or US-6599722-\$ or US-5733521-\$ or US-4159284-\$ or US-4145486-\$ or US-4477597-\$ or US-5863438-\$ or US-4051221-\$).did. or (US-2847421-\$).did.	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/12 09:45
S10 5	158287	anion	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/12 09:46

## EAST Search History

S10 6	29	S104 and S105	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/12 09:46
S10 7	1200	weak\$2 adj basic adj anion adj exchang\$4	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/12 10:00
S10 8	333	heikkila.in.	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/12 10:00
S10 9	12	S107 and S108	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/12 10:04
S11 0	52	S105 and S108	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/12 11:55
S11 1	325603	cation	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/12 11:55
S11 2	1	S103 and S111	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/12 13:06
S11 3	23	S104 and S111	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/12 13:06
S11 4	31	(US-20050112734-\$ or US-20040006222-\$ or US-20050061313-\$ or US-20050096464-\$ or US-20020058715-\$ or US-20040006223-\$).did. or (US-6146856-\$ or US-6475552-\$ or US-6224683-\$ or US-4968353-\$ or US-4111714-\$ or US-5126500-\$ or US-4292451-\$ or US-6358715-\$ or US-6599722-\$ or US-5863438-\$ or US-3982956-\$ or US-3961981-\$ or US-5733521-\$ or US-5094694-\$ or US-5482631-\$ or US-5795398-\$ or US-4051221-\$ or US-4049546-\$ or US-4477597-\$ or US-4159284-\$ or US-4145486-\$ or US-5084104-\$ or US-4718946-\$ or US-4799965-\$).did. or (US-2847421-\$).did.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/03 14:29
S11 5	310732	particle adj size	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/03 14:29
S11 6	10	S114 and S115	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/03 15:06

## EAST Search History

S11 7	3075	quinn.in.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/03 15:06
S11 8	1027	210/635.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/03 15:06
S11 9	3036	210/656-659.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/03 15:06
S12 0	2866	210/198.2-198.3.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/03 15:06
S12 1	4080	S118 or S119 or S120	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/03 15:07
S12 2	7	S117 and S121	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/03 15:07
S12 3	5	S115 and S122	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/03 15:09
S12 4	2255876	diameter	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/03 15:09
S12 5	7	S122 and S124	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/03 15:09